

Date: February 20, 2014
Project No.: 84062.12



Engineer's Opinion of Probable Cost
for
Skyview Ridge Subdivision - Revised Phase II
TO PROVIDE WATER, SANITARY SEWER, STORM DRAIN, AND STREET IMPROVEMENTS
Estimate based on preliminary plat layout only
Includes Lots 5-9, block 1, Lot 1, Block 3, Lot 1, Block 4, Lot 1, block 5,
Lot 1, Block 6, Lot 1, Block 9 and Lot 1, Block 12

Schedule I: Utilities

Item No.	Quantity	Unit	Description	Unit Price	Subtotal
101	1	LS	Mobilization and Insurance	\$91,986.75 =	\$91,986.75
102	3	EA	Connect to Ex. 8-inch Sanitary Sewer Stub	\$4,500.00 =	\$13,500.00
103	23	EA	Basic Sanitary Manhole	\$3,500.00 =	\$80,500.00
104	115	VF	Extra Depth Sanitary Sewer Manhole	\$95.00 =	\$10,925.00
105	5434	LF	8-inch Sanitary Sewer Main	\$40.00 =	\$217,360.00
106	55	EA	6-inch Sanitary Sewer Service	\$800.00 =	\$44,000.00
107	1540	LF	6-inch Sanitary Sewer Service pipe	\$25.00 =	\$38,500.00
108	9	EA	8-inch PVC Sanitary Sewer Cap	\$150.00 =	\$1,350.00
109	3	EA	Connect to 8-inch Water Main Stub	\$2,500.00 =	\$7,500.00
110	5290	LF	8-inch Water Main	\$35.00 =	\$185,150.00
111	26	EA	8-inch Gate Valve	\$1,500.00 =	\$39,000.00
112	1	EA	8-inch Cross	\$850.00 =	\$850.00
113	7	EA	8-inch Tee	\$750.00 =	\$5,250.00
114	12	EA	8X8X6-inch Tee	\$750.00 =	\$9,000.00
115	11	EA	8-inch Bend	\$550.00 =	\$6,050.00
116	12	EA	Fire Hydrant Assembly (inc. valve & piping)	\$4,500.00 =	\$54,000.00
117	50	EA	1-inch Water Service on 8-inch Main	\$1,100.00 =	\$55,000.00
118	5	EA	4-inch Water Service (inc. valve, piping)	\$1,800.00 =	\$9,000.00
119	7	EA	2-inch Temporary Blowoff	\$2,000.00 =	\$14,000.00
120	7	EA	8-inch Plug & Thrust	\$500.00 =	\$3,500.00
121	3	EA	Connect to Ex. 21-inch Storm Drain Stub	\$3,000.00 =	\$9,000.00
122	17	EA	Storm Drain Manhole	\$4,000.00 =	\$68,000.00
123	85	VF	Extra Depth Manhole	\$95.00 =	\$8,075.00
124	900	LF	24-inch Storm Drain Pipe	\$80.00 =	\$72,000.00
125	1948	LF	21-inch Storm Drain Pipe	\$70.00 =	\$136,360.00
126	1121	LF	18-inch Storm Drain Pipe	\$60.00 =	\$67,260.00
127	250	LF	15-inch Storm Drain Pipe	\$60.00 =	\$15,000.00
128	359	LF	12-inch Storm Drain Pipe	\$40.00 =	\$14,360.00
129	14	EA	Curb Inlet	\$1,750.00 =	\$24,500.00
130	1	EA	21-inch Storm Drain Cap	\$500.00 =	\$500.00
131	1	EA	18-inch Storm Drain Cap	\$500.00 =	\$500.00
132	5	EA	6-inch Storm Drain Service	\$600.00 =	\$3,000.00
133	140	LF	6-inch Storm Drain Service pipe	\$25.00 =	\$3,500.00
134	1	LS	Traffic Control During Construction	\$10,000.00 =	\$10,000.00
Schedule I Subtotal				=	\$1,318,476.75

Schedule II: Streets

Item No.	Quantity	Unit	Description	Unit Price	Subtotal
201	1	LS	Mobilization and Insurance	\$43,087.20 =	\$43,087.20
202	1	LS	Storm Water Management and Erosion Control	\$7,500.00 =	\$7,500.00
203	8331	CY	Unclassified Excavation - Streets	\$8.00 =	\$66,648.00
204	6955	CY	1-1/2-inch Base Gravel (12-inch thick)	\$22.00 =	\$153,010.00
205	10354	LF	Curb and Gutter	\$11.00 =	\$113,894.00
206	540	SF	Accessibility Ramp	\$7.00 =	\$3,780.00
207	20	EA	Truncated Dome Panels	\$150.00 =	\$3,000.00
208	17647	SY	Asphalt Surface Course (3-inch Section)	\$12.00 =	\$211,764.00
209	12	EA	Monument and box	\$500.00 =	\$6,000.00
210	5	EA	Street Name Sign with Post	\$400.00 =	\$2,000.00
211	1	LS	Yellow Epoxy Curb Paint	\$400.00 =	\$400.00
212	3	EA	Relocate Road closed sign & Delineator	\$500.00 =	\$1,500.00
213	1	LS	Traffic control during construction	\$5,000.00 =	\$5,000.00
Schedule II Subtotal					= \$617,583.20

Construction Subtotal	=	\$1,936,059.95
Construction Subtotal Plus Contingency	=	\$2,226,468.94

Administrative Fees

Engineering Design	7.50%	=	\$166,985.17
Construction Admin & Inspection	7.00%	=	\$155,852.83
construction staking	1.50%	=	\$33,397.03
Materials testing	1.50%	=	\$33,397.03
City of Billings Private contract fee	3.50%	=	\$77,926.41
Subtotal of Administrative Fees		=	\$467,558.48

Construction Total and Administrative Fees = \$2,694,027.42

Total Net Lot Square Footage = 1,395,662 SF
 Square foot cost (net lot area) = \$1.93

Notes:

quantity estimates based on Preliminary plat layout only - not on actual design

Mobilization and Insurance based on percentage of total schedule cost

Construction contingency

All items are complete and in place.

7.5 %
 15 %

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